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Om protein - protein search, using sw model

Run on: March 17, 2004, 18:47:23 ; Search time 25.073 Seconds
(without alignments) 683.183 Million cell updates/sec

Title: US-09-989-981A-6

Perfect score: 3326

Sequence: 1 MGDLSSITPGGSMGLQVNRC... PALVILGIVWFKIRDHLSR 651

Scoring table: Biolog62 Gapop 10.0 , Gapext: 0.5

Searched: 1045404 seqs, 257433775 residues

Total number of hits satisfying chosen parameters: 1045404

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100%

Listing first 45 summaries

Database : Published Applications db: *

1: /cggn2_6/ptodata/1/pubpaal/US07_PUBCOMB.pep: *
2: /cggn2_6/ptodata/1/pubpaal/PCT_NEW_PUB.pep: *
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18: /cggn2_6/ptodata/1/pubpaal/US60_PUBCOMB.pep: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match Length	DB ID	Description
1	3326	100.0	651	9	US-09-837-992-3
2	3326	100.0	651	10	US-09-989-981A-6
3	3326	100.0	651	14	US-10-050-455-6
4	2744.5	82.5	652	9	US-09-837-992-1
5	2744.5	82.5	652	10	US-09-919-981A-2
6	1308	39.3	256	15	US-10-04-047-2795
7	697	21.0	672	10	US-09-919-981A-4
8	697	21.0	673	10	US-09-919-981A-8
9	697	21.0	673	14	US-10-050-455-7
10	682.5	20.5	655	10	US-09-951-084-1
11	682.5	20.5	655	15	US-10-405-805-13
12	680.5	20.5	655	9	US-09-981-353-35
13	680.5	20.5	655	14	US-12-020-687-61
14	680.5	20.5	655	15	US-10-405-806-2
15	674.5	20.3	655	9	US-09-866-866A-10

RESULT 1

; Sequence 3, Application US/09837992
; Patent No. US20030081687A1
; GENERAL INFORMATION:
; APPLICANT: Tian, Hui
; APPLICANT: Schultz, Joshua
; APPLICANT: Shan, Bei
; APPLICANT: Tularik, Inc.
; TITLE OF INVENTION: Sitosterolemia Susceptibility Gene (SSG): Compositions
; TITLE OF INVENTION: and Methods of Use
; FILE REFERENCE: 018711-00020US
; CURRENT FILING DATE: 2001-04-18
; PRIOR APPLICATION NUMBER: US 09/837, 992
; PRIOR FILING DATE: 2000-04-18
; PRIOR APPLICATION NUMBER: US 60/204, 234
; PRIOR FILING DATE: 2000-05-15
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO: 3
; LENGTH: 651
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: human sitosterolemia susceptibility gene (SSG)
; OTHER INFORMATION: amino acid sequence
US-09-837-992-3

Query Match Best Local Similarity 100.0%; Score 3326; DB 9; Length 651; Matches 651; Conservative 0; Mismatches 0; Idents 0; Gaps 0;

Q 1 MGDLSSITPGGSMGLQVNRCQSSELEGATAPEPHSIGLTHASYSVHRVPWDITSC 60
D 1 MGDLSSITPGGSMGLQVNRCQSSELEGATAPEPHSIGLTHASYSVHRVPWDITSC 60
Q 1 MGDLSSITPGGSMGLQVNRCQSSELEGATAPEPHSIGLTHASYSVHRVPWDITSC 60
D 1 MGDLSSITPGGSMGLQVNRCQSSELEGATAPEPHSIGLTHASYSVHRVPWDITSC 60
Q 61 RQQWIRQLKQVSLVESQGIMCLIGSSGKTLIDAMSGRLGRAGTEFLGEVYNGAL 120

Db 61 RQOWRQLQKDVSVSUVESQIMCILGSSGSKTLLDAMSGRGRAGTFIQLGVYNGRAL 120
 Qy 121 REQFQDCFSYVLOSTLSSLTRETLHYTALLAIRRNPGSFQKKVAVMAELSHV 180
 Db 121 REQFQDCFSYVLOSTLSSLTRETLHYTALLAIRRNPGSFQKKVAVMAELSHV 180
 Qy 181 ADRLIGNYSIGGISTGERRSVIAQOLQDPKWKMLFDEPTGIDCMTCMANTQIVVULVELAR 240
 Db 181 ADRLIGNYSIGGISTGERRSVIAQOLQDPKWKMLFDEPTGIDCMTCMANTQIVVULVELAR 240
 Qy 241 RNRIVLUTHOPRSELFOFDKIAITISFGBLIFCGTPAEMLDFFNDCCGPCEHSNPFDF 300
 Db 241 RNRIVLUTHOPRSELFOFDKIAITISFGBLIFCGTPAEMLDFFNDCCGPCEHSNPFDF 300
 Qy 301 YMDLTSDTOSKEREIETSVOMESAYKSAKCHKTUNIERNMKHLTKLPMWPKTD 360
 Db 301 YMDLTSDTOSKEREIETSVOMESAYKSAKCHKTUNIERNMKHLTKLPMWPKTD 360
 Qy 361 SPGVFSKLGVLRLRVRNLKAVITRILQNLIMGLFLFFVLRVSNVKGAIQDRV 420
 Db 361 SPGVFSKLGVLRLRVRNLKAVITRILQNLIMGLFLFFVLRVSNVKGAIQDRV 420
 Qy 421 GLYIQFGATPYTGMANAVLPVURASQESQDGLYKQWMMLAYHVPFWVATM 480
 Db 421 GLYIQFGATPYTGMANAVLPVURASQESQDGLYKQWMMLAYHVPFWVATM 480
 Qy 481 IFSSVCYWTGHLPEVARFGFSAALLAPhilipGEFTLVGLGVQNPNVNSVALSIA 540
 Db 481 IFSSVCYWTGHLPEVARFGFSAALLAPhilipGEFTLVGLGVQNPNVNSVALSIA 540
 Qy 541 GYLVSGSGFLRNIQEMPIPFPKLIISYTFQKCCSELIVNENFGYGLNTGCSNVSTTNPMC 600
 Db 541 GYLVSGSGFLRNIQEMPIPFPKLIISYTFQKCCSELIVNENFGYGLNTGCSNVSTTNPMC 600
 Qy 601 AFTQGQFIETKCPGATSRFTMNFLILYSPFIPALVILGVWFKIRDHLISR 651
 Db 601 AFTQGQFIETKCPGATSRFTMNFLILYSPFIPALVILGVWFKIRDHLISR 651
 ;
RESULT 2
 US-09-989-981A-6
 ; Sequence 6 , Application US/09989981A
 ; Publication No. US20030049730A1
 ; GENERAL INFORMATION:
 ;
 ; APPLICANT: Hobbs, Helen H.
 ;
 ; APPLICANT: Shan, Bei
 ;
 ; APPLICANT: Barnes, Robert
 ;
 ; APPLICANT: Tularik Inc.
 ;
 ; APPLICANT: Board of Regents, The University of Texas System
 ; TITLE OF INVENTION: Compositions and Methods of Use
 ; FILE REFERENCE: 01781-007320US
 ; CURRENT APPLICATION NUMBER: US/09/989, 981A
 ; CURRENT FILING DATE: 2002-07-23
 ; PRIOR APPLICATION NUMBER: US 60/252, 235
 ; PRIOR FILING DATE: 2000-11-20
 ; PRIOR APPLICATION NUMBER: US 60/253, 645
 ; PRIOR FILING DATE: 2000-11-28
 ; NUMBER OF SEQ ID NOS: 13
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 6
 ; LENGTH: 651
 ; TYPE: PRT
 ;
 ; ORGANISM: Homo sapiens
 ; OTHER INFORMATION: human ABCG5 (hABCG5)
 ; US-09-989-981A-6
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 Query Match 100.0%; Score 3326; DB 10; Length 651;
 Best Local Similarity 100.0%; Pred. No. 1.5e-309;
 Matches 651; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 61 RQOWRQLQKDVSVSUVESQIMCILGSSGSKTLLDAMSGRGRAGTFIQLGVYNGRAL 120
 Qy 1 MDJSLSITPGGSMGLQVNRGSQSSLEGAPATAPEPHSLGILHASYSVSHRVRPWDITSC 60
 Db 1 MGDLSSITPGGSMGLQVNRGSQSSLEGAPATAPEPHSLGILHASYSVSHRVRPWDITSC 60
 Qy 61 RQOWRQLQKDVSVSUVESQIMCILGSSGSKTLLDAMSGRGRAGTFIQLGVYNGRAL 120
 Db 61 RQOWRQLQKDVSVSUVESQIMCILGSSGSKTLLDAMSGRGRAGTFIQLGVYNGRAL 120
 Qy 121 REQFQDCFSYVLOSTLSSLTRETLHYTALLAIRRNPGSFQKKVAVMAELSHV 180
 Db 121 REQFQDCFSYVLOSTLSSLTRETLHYTALLAIRRNPGSFQKKVAVMAELSHV 180
 Qy 181 ADRLIGNYSIGGISTGERRSVIAQOLQDPKWKMLFDEPTGIDCMTCMANTQIVVULVELAR 240
 Db 181 ADRLIGNYSIGGISTGERRSVIAQOLQDPKWKMLFDEPTGIDCMTCMANTQIVVULVELAR 240
 Qy 241 RNRIVLUTHOPRSELFOFDKIAITISFGBLIFCGTPAEMLDFFNDCCGPCEHSNPFDF 300
 Db 241 RNRIVLUTHOPRSELFOFDKIAITISFGBLIFCGTPAEMLDFFNDCCGPCEHSNPFDF 300
 Qy 301 YMDLTSDTOSKEREIETSVOMESAYKSAKCHKTUNIERNMKHLTKLPMWPKTD 360
 Db 301 YMDLTSDTOSKEREIETSVOMESAYKSAKCHKTUNIERNMKHLTKLPMWPKTD 360
 Qy 361 SPGVFSKLGVLRLRVRNLKAVITRILQNLIMGLFLFFVLRVSNVKGAIQDRV 420
 Db 361 SPGVFSKLGVLRLRVRNLKAVITRILQNLIMGLFLFFVLRVSNVKGAIQDRV 420
 Qy 421 GLYIQFGATPYTGMANAVLPVURASQESQDGLYKQWMMLAYHVPFWVATM 480
 Db 421 GLYIQFGATPYTGMANAVLPVURASQESQDGLYKQWMMLAYHVPFWVATM 480
 Qy 481 IFSSVCYWTGHLPEVARFGFSAALLAPhilipGEFTLVGLGVQNPNVNSVALSIA 540
 Db 481 IFSSVCYWTGHLPEVARFGFSAALLAPhilipGEFTLVGLGVQNPNVNSVALSIA 540
 Qy 541 GYLVSGSGFLRNIQEMPIPFPKLIISYTFQKCCSELIVNENFGYGLNTGCSNVSTTNPMC 600
 Db 541 GYLVSGSGFLRNIQEMPIPFPKLIISYTFQKCCSELIVNENFGYGLNTGCSNVSTTNPMC 600
 Qy 601 AFTQGQFIETKCPGATSRFTMNFLILYSPFIPALVILGVWFKIRDHLISR 651
 Db 601 AFTQGQFIETKCPGATSRFTMNFLILYSPFIPALVILGVWFKIRDHLISR 651
 ;
RESULT 3
 US-10-090-455-6
 ; Sequence 5 , Application US/10090455
 ; Publication No. US20030027259A1
 ; GENERAL INFORMATION:
 ;
 ; APPLICANT: Chen, Hongyun
 ;
 ; APPLICANT: Le Bihan, Stephane
 ;
 ; TITLE OF INVENTION: NOVEL ABCG4 TRANSPORTER AND USES THEREOF
 ; FILE REFERENCE: 100103406
 ; CURRENT APPLICATION NUMBER: US/10/090, 455
 ; CURRENT FILING DATE: 2002-03-01
 ; NUMBER OF SEQ ID NOS: 17
 ;
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ;
 ; SEQ ID NO 6
 ; LENGTH: 651
 ; TYPE: PRT
 ;
 ; ORGANISM: Homo sapiens
 ;
 ; US-10-090-455-6
 ;
 Query Match 100.0%; Score 3326; DB 14; Length 651;
 Best Local Similarity 100.0%; Pred. No. 1.5e-309;
 Matches 651; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MGDLSSITPGGSMGLQVNRGSQSSLEGAPATAPEPHSLGILHASYSVSHRVRPWDITSC 60
 Db 1 MGDLSSITPGGSMGLQVNRGSQSSLEGAPATAPEPHSLGILHASYSVSHRVRPWDITSC 60
 Qy 61 RQOWRQLQKDVSVSUVESQIMCILGSSGSKTLLDAMSGRGRAGTFIQLGVYNGRAL 120

RESULT 4
 US-09-837-992-1
 Sequence 1 Application US/09837992
 ; Patent No. US20020091678A1

GENERAL INFORMATION:
 ; APPLICANT: Tularik Inc.
 ; APPLICANT: Schultz, Joshua
 ; APPLICANT: Tian, Hui
 ; APPLICANT: Shan, Bei
 ; TITLE OF INVENTION: Sitosterolemia Susceptibility Gene (SSG): Compositions and Methods of Use
 ; FILE REFERENCE: 018781-006020US
 ; CURRENT APPLICATION NUMBER: US/09/837,992
 ; CURRENT FILING DATE: 2001-04-18
 ; PRIOR APPLICATION NUMBER: US 60/198,465
 ; PRIOR FILING DATE: 2000-04-18
 ; PRIOR APPLICATION NUMBER: US 60/204,234
 ; NUMBER OF SEQ ID NOS: 45
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 1
 ; LENGTH: 652
 ; TYPE: PRT
 ; ORGANISM: Mus musculus
 ; OTHER INFORMATION: mouse sitosterolemia susceptibility gene (SSG)
 ; OTHER INFORMATION: amino acid sequence
 ; US-09-837-992-1

Db 61 RQWQTQILKDVLSLYVESGQMCILGSSGKTTILDAMSRLGRAGTFLGEVYNGRAL 120
 Qy 121 RRBFQFQCSYVQLQSDTLLSITVRETHYALLAARRNGSGFORKVEAMAEISLHV 180
 Db 121 RRBFQFQCSYVQLQSDTLLSITVRETHYALLAARRNGSGFORKVEAMAEISLHV 180
 Qy 181 ARLIGYSLGGTGSTERRVIAQIQLQDKPMLEDEPTGLCDMTANGIVVULVELAR 240
 Db 181 ARLIGYSLGGTGSTERRVIAQIQLQDKPMLEDEPTGLCDMTANGIVVULVELAR 240
 Qy 241 RNRIVVLTIHQPSLELFQDKIAISFGELIFCGTPAEMIDFFNDGCGYPCPEHSNPDF 300
 Db 241 RNRIVVLTIHQPSLELFQDKIAISFGELIFCGTPAEMIDFFNDGCGYPCPEHSNPDF 300
 Qy 301 YMFLTSVDTQSKEREITSKRYOMIESAYKSAICHTKLTKTERMCHKLTKIPMVPKTD 360
 Db 301 YMFLTSVDTQSKEREITSKRYOMIESAYKSAICHTKLTKTERMCHKLTKIPMVPKTD 360
 Qy 361 SPCVFPSKLGVLVLRVRTRNLVNLKAVTRLQLNGLFLPFLVLAWSNLVKGALQDRV 420
 Db 361 SPCVFPSKLGVLVLRVRTRNLVNLKAVTRLQLNGLFLPFLVLAWSNLVKGALQDRV 420
 Qy 421 GLIYQFVGATPTGMLNAVNLPVRAVSDESDQGAYQKOMMLAYALHLPFSVAT 480
 Db 421 GLIYQFVGATPTGMLNAVNLPVRAVSDESDQGAYQKOMMLAYALHLPFSVAT 480
 Qy 481 IISSVCYWTGLHEPARFGYSSAALLAAPHLTGEFLTLVIGIVQPNNTVNSVALSIA 540
 Db 481 IISSVCYWTGLHEPARFGYSSAALLAAPHLTGEFLTLVIGIVQPNNTVNSVALSIA 540
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 Db 481 IISSVCYWTGLHEPARFGYSSAALLAAPHLTGEFLTLVIGIVQPNNTVNSVALSIA 540
 Qy 541 GIVVNGSGFLRNTQEMPFPKISYFTQKYSBILVNEFYGLNFCTGSSANSVTNPNC 600
 Db 541 GIVVNGSGFLRNTQEMPFPKISYFTQKYSBILVNEFYGLNFCTGSSANSVTNPNC 600
 Qy 601 AFTQGIOQIEKTCPGATSRFTMFLLYSPFIPALVIGIVVKIRDLISR 651
 Db 601 AFTQGIOQIEKTCPGATSRFTMFLLYSPFIPALVIGIVVKIRDLISR 651

RESULT 4
 US-09-837-992-1
 Sequence 1 Application US/09837992
 ; Patent No. US20020091678A1

GENERAL INFORMATION:
 ; APPLICANT: Tularik Inc.
 ; APPLICANT: Schultz, Joshua
 ; APPLICANT: Tian, Hui
 ; APPLICANT: Shan, Bei
 ; APPLICANT: Tularik Inc.
 ; TITLE OF INVENTION: Sitosterolemia Susceptibility Gene (SSG): Compositions and Methods of Use
 ; FILE REFERENCE: 018781-006020US
 ; CURRENT APPLICATION NUMBER: US/09/837,992
 ; CURRENT FILING DATE: 2001-04-18
 ; PRIOR APPLICATION NUMBER: US 60/198,465
 ; PRIOR FILING DATE: 2000-04-18
 ; PRIOR APPLICATION NUMBER: US 60/204,234
 ; NUMBER OF SEQ ID NOS: 45
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 1
 ; LENGTH: 652
 ; TYPE: PRT
 ; ORGANISM: Mus musculus
 ; OTHER INFORMATION: mouse sitosterolemia susceptibility gene (SSG)
 ; OTHER INFORMATION: amino acid sequence
 ; US-09-837-992-1

RESULT 5
 US-09-989-981A-2
 Sequence 2 Application US/0989981A
 Publication No. US20030049730A1
 GENERAL INFORMATION:
 ; APPLICANT: Hobbs, Helen H.
 ; APPLICANT: Shan, Bei
 ; APPLICANT: Barnes, Robert
 ; APPLICANT: Tian, Hui
 ; APPLICANT: Tularik Inc.
 ; APPLICANT: Board of Regents, The University of Texas System
 ; TITLE OF INVENTION: ABCG5 and ABCG8: Compositions and Methods of Use
 ; FILE REFERENCE: 018781-007320US
 ; CURRENT APPLICATION NUMBER: US/09/989, 981A
 ; CURRENT FILING DATE: 2003-07-23
 ; PRIOR APPLICATION NUMBER: US 60/252, 235
 ; PRIOR FILING DATE: 2000-11-20
 ; PRIOR APPLICATION NUMBER: US 60/253, 645
 ; PRIOR FILING DATE: 2000-11-28
 ; NUMBER OF SEQ ID NOS: 13
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 2
 ; LENGTH: 652
 ; TYPE: PRT
 ; ORGANISM: Mus musculus
 ; FEATURE:
 ; OTHER INFORMATION: mouse ABCG5 (mABC5)
 ; OTHER INFORMATION: amino acid sequence
 ; US-09-837-992-1

Query Match Similarity 80.2%; Score 2744.5; DB 9; Length 652;
 Best local Similarity 80.2%; Pred. No 8.8e-254;
 Matches 523; Conservative 64; Mismatches 64; Indels 1; Gaps 1;

Query Match 82.5%; Score 2744.5; DB 10; Length 652;
 Best Local Similarity 80.2%; Pred. No. 8.8e-254; Indels 1; Gaps 1;
 Matches 523; Conservative 64; Mismatches 64; Delns 1;

1 MGDDLSITGGGSMQIQLQNRGSQSISLEGAPATAPER-HSILGILASYSFSHVRWREWDTS 59
 1 MGELPFPLSPEGARGRAPHINRGSSLSLEGAPATAPER-HSILGILASYSFSHVRWREWDTS 59

60 CROWCTRQLKDLYSLEYSGSQIMCITLGSSGSKTLLDAMSGRIGRAGIFLGETYUNGR 119
 61 CQQKNDRQIKDVSILYSESQIMCITLGSSGSKTLLDAMSGRIGRAGIFLGETYUNGR 120

120 LRRQFOQCPSTYQIQLSITLSSLTRETHITALLAIRRKGPNPSFQKYEAVMELSH 179
 121 LRRQFOQCPSTYQIQLSITLSSLTRETHITALLAIRRKGPNPSFQKYEAVMELSH 180

180 VADQMIGTSNFGGSSGERRVSTAQIQLDPRMLPDTTGLDCMAMQIVLVELA 239
 181 VADQMIGTSNFGGSSGERRVSTAQIQLDPRMLPDTTGLDCMAMQIVLVELA 240

240 RRNRKVVLTHQPSBELLFDKAILLSGFLFGTPEAMLFDFNDGCPCPBHSNPED 299
 241 PRDQIVTVIHOPSELFLQHFDKAILLTYGLVQGTPEMLGPNNCCYCPBHSNPED 300

300 FMDLTSVDTOSKREIEJKSCKRVMTEASVAKSAICHTKLNTREMKHLTKPMPPKTK 359
 301 FMDLTSVDTOSKREIEJKSCKRVMTEASVAKSAICHTKLNTREMKHLTKPMPPKTK 360

360 DSWAEVKSKGULLRVTRNLVRKLNKLAVTRILQNLQMGFLPFLFVTRVSNVLGAIDR 419
 361 DPPGMFKGKUGVLLRVRTRNLVRKLNKLAVTRILQNLQMGFLPFLFVTRVSNVLGAIDR 420

420 VGLIYQFGATPYGTMNATNLFPVLRASQESDGQYKWWOMLAVAHWPSVAT 479
 421 VGLIYQFGATPYGTMNATNLFPVLRASQESDGQYKWWOMLAVAHWPSVAT 480

480 MIFSSVCYWLGHPEVARCGYSALLAHPHGLTFLVIGIVQNPNTVWALLSI 539
 481 VIFSSVCYWLGHPEVARCGYSALLAHPHGLTFLVIGIVQNPNTVWALLSI 540

540 AGVLVGSGFERNIQEMPPIKLIISFTFQKCYSEIILVVAEYFGNFTCGSSNSVTTNP 599
 541 SGULIGSGFERNIQEMPPIKLIISFTFQKCYSEIILVVAEYFGNFTCGSSNSVTTNP 600

600 CAFTOGIQTBKTCRGATSTPMTNLLYSLFQYKCYCELVWVPEYGLPCTCGSNTSMNHPM 651
 601 CAITOGVQFTEKTCGATSTPMTNLLYSLFQYKCYCELVWVPEYGLPCTCGSNTSMNHPM 652

RESULT 6
 US-10-104-047-2795
 Sequence 2795, Application US/10104047
 Publication No. US20030236392A1
 GENERAL INFORMATION:
 APPLICANT: HELIX RESEARCH INSTITUTE
 TITLE OF INVENTION: No. US20030236392A1 full length cDNA.
 FILE REFERENCE: H1-A0105
 CURRENT APPLICATION NUMBER: US/104-047-2795
 PRIORITY DATE: 2000-11-20
 PRIORITY APPLICATION NUMBER: US 60/253,645
 PRIORITY FILING DATE: 2000-11-28
 NUMBER OF SEQ ID NOS: 13
 CURRENT APPLICATION NUMBER: US/09/889,981A
 CURRENT FILING DATE: 2002-07-23
 PRIORITY APPLICATION NUMBER: US 60/252,235
 PRIORITY FILING DATE: 2000-11-20
 PRIORITY APPLICATION NUMBER: US 60/253,645
 PRIORITY FILING DATE: 2000-11-28
 NUMBER OF SEQ ID NOS: 13
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO: 4
 LENGTH: 672
 TYPE: PRT
 ORGANISM: Mus musculus
 FEATURE:
 OTHER INFORMATION: mouse ABCG8 (mABCG8)
 US-09-989-981A-4

Query Match 21.0%; Score 697; DB 10; Length 672;
 Best Local Similarity 29.1%; Pred. No. 2.2e-57; Indels 84; Gaps 18;
 Matches 195; Conservative 129; Mismatches 263; Delns 84; Gaps 18;

15 LQNRGSQSISLEGAPATAPER-HSILGILASYSFSHVRWREWDTS 59
 16 LQDAGLQDSL---FSSBDNLSFTYSSQNTLBVRDLYQVDIASOYFWBQFLAQFK 72
 17 LQDAGLQDSL---FSSBDNLSFTYSSQNTLBVRDLYQVDIASOYFWBQFLAQFK 72

62 QWTRQI-----LKDVSILYSEQSQIMCITLGSSGSKTLLDAMSGRIGRAGIFLGETYUNGR 112
 63 QWTRQI-----LKDVSILYSEQSQIMCITLGSSGSKTLLDAMSGRIGRAGIFLGETYUNGR 112

73 IPWRSHSSQDSCELGIRNLSPKVRQSMQIAIGGGCGGRASLIDVITGR-GHGKRNSQ 131
 74 IPWRSHSSQDSCELGIRNLSPKVRQSMQIAIGGGCGGRASLIDVITGR-GHGKRNSQ 131

113 VYNGRALR3R2QFQCPSTYQIQLSITLSSLTRETHITALLAIRRKGPNPSFQKYEAV 171
 132 IWINQGPSTQPLVRKCVAHVRQHDQPLPNVTERTAFIAQMRURTFSQQRDRVEDV 191

172 MAELSHSVHADRIGHSYSLGISTERRVSTAQIQLDPRMLPDTTGLDCMAMQIVLVELA 231
 192 IAPLRLQCANTRGVNTYVGSSGERRVSVIGVOLLWNPGILILDEPTSGSDFAHNL 251
 232 VTLVLLARRNRIWVITHOPSELFLQFXTIALISFGELFCGTPAEMLFDFNDGCPY 291

Query Match 39.3%; Score 1308; DB 15; Length 256;
 Best Local Similarity 100.0%; Pred. No. 1.2e-15; Indels 0; Gaps 0;
 Matches 256; Conservative 0; Mismatches 0; Delns 0;

TYPE: PRT
 ORGANISM: Homo sapiens
 US-10-104-047-2795

Db 252 VTIISRLAKGNRLVLISHOPRSIDFLFDLVLIMTSGTPYLGAQMQYFTSIGHPC 311
 Qy 292 PEISNPFPYMDTSVOTSGEREIESTKRVOMIESAYKSA-----ICKTLNTERM 345
 Db 312 PRYSNPADFPYDVLTSIDRSKEREVATEKAOASLAFLERKQGFDLWKAELNTS 371
 Qy 346 KHKTLPMPFKKDS-----PGFESKCLGLRVRTRNLVRNLKAVTTRLLQMLNG 397
 Db 372 THWSLTU---TQDQGTAPELPGMTEQFSTLIRROISHFRDLPTLHGSEACTMS 427
 Qy 398 LFLPFURVRSVNLKGALQDRGLJQFGATPQMLNAINFLVRASDQSODGL 457
 Db 428 LITGFLYQGHGAKOL-SFMDFDALLMIGALIPENVLDVUSKCHSERSMLYYLEDGL 485
 Qy 458 YOKWMMIAYALVLPFSSVATMIFSSCYWTGLHEVARPGYFSAAILAPHLIGEFL- 516
 Db 486 YTAGPYFFAKLIGELPERCAVYIAMPYWTNLRVELE----LI--HELOWLV 537
 Qy 517 -----TUVLGIVONPNT-UNSVWALSIAGLVGINGSPLRNQEMPIPKTISYTFQY 570
 Db 538 VFCCRTMALAASAMLPFHMSFCNALYNFSILTGFPMILNDLNIVPAWISKSLFRW 597
 Qy 571 CSIIUVNBYFGIANFT-CGSSNVSYTNPMACTOIQFBTCGATSPFTMFILY 628
 Db 598 CFSGLMQLQFNGHLYTTOIGNFTPSILGDTM-----ISAMDINSHPLY 640
 Qy 629 SFIPALVILGI 639
 Db 641 ATY--LTWIGI 649

RESULT 8
 US-09-989-981A-8
 ; Sequence 8 Application US/09989981A.
 ; Publication No. US20030049730A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Hobbs, Helen H.
 ; APPLICANT: Shan, Bei
 ; APPLICANT: Barnes, Robert
 ; APPLICANT: Tilarik Inc.
 ; APPLICANT: Board of Regents, The University of Texas System
 ; TITLE OF INVENTION: ABCG5 and ABCG8: Compositions and Methods of Use
 ; FILE REFERENCE: 01781-007320US
 ; CURRENT APPLICATION NUMBER: US/09/989, 981A
 ; CURRENT FILING DATE: 2002-07-23
 ; PRIOR APPLICATION NUMBER: US 60/252, 235
 ; PRIOR FILING DATE: 2000-11-20
 ; PRIOR APPLICATION NUMBER: US 60/253, 645
 ; PRIOR FILING DATE: 2000-11-28
 ; NUMBER OF SEQ ID NOS: 13
 ; SOFTWARE: Patentin Ver. 2.1
 ; SEQ ID NO 8
 ; LENGTH: 673
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens

RESULT 9
 US-10-090-455-7
 ; Sequence 7 Application US/10090455
 ; Publication No. US20030027259A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Chen, Hongyun
 ; APPLICANT: Le Bihan, Stephane
 ; TITLE OF INVENTION: NOVEL ABCG4 TRANSPORTER AND USES THEREOF
 ; FILE REFERENCE: 10103-406
 ; CURRENT APPLICATION NUMBER: US/10/090, 455
 ; CURRENT FILING DATE: 2002-01-01
 ; NUMBER OF SEQ ID NOS: 17
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 7
 ; LENGTH: 673
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-10-090-455-7

Query Match 21.0%; Score 697; DB 10; Length 673;
 Best Local Similarity 28.9%; Pred. No. 2.2e-57;
 Matches 187; Conservative 124; Mismatches 241; Indels 96; Gaps 16;

Qy 8 TPGGSMGLQNRGSQSSLEGAPAT-APERPHSGILHASYSVSHVR-PWWD-ITSRCQW 64
 Db 16 TPDTSGLQDRLFSESSENLYPTSGQPNLTVRDLYQNDLASQWPWFBOLAQFPMW 75
 Qy 65 TRQI-----LKDVSLYEVQMCILGSSGSKTILLDAMSGRGRAGTF-LGEVYV 115
 Db 76 TSPSCQNSCBLGIONLSFKRSQMLAATIGSSGGGRASSLDVITGR-QHGGKIKSGQWI 134
 Qy 116 NGRALRREQDQCSYVQDSDTLLSITRETHYHALLAI-RRGNPFSQKYEAVME 174
 Db 135 NGQSPSPQVLVRKCVAHRHNOOLPNLTVRETIAFQMRPLPTFSQQRDRKVEDVIA 194
 Qy 175 NGQSPSPQVLVRKCVAHRHNOOLPNLTVRETIAFQMRPLPTFSQQRDRKVEDVIA 194
 Db 195 LRUROCADPRVGNNYVRUGRRGGERRVSVGQOLLNPQGILDEPTSGDFTAHNLWT 234
 Qy 235 LVEJARRNIVVUTIHORSESEFQLDKIALSPGFLPCGPAEMDDFNCGYPPEH 294
 Db 255 LSRJAKGNRLVLISHOPRSIDFLFDLVLIMTSGTPYLGAQMQYFTSIGHPC 311
 Qy 295 SNPPDPYMDTSVOTSGEREIESTKRVOMIESAYKSAICHTKLKIERMKHL---- 348
 Db 315 SNADFPYDVLTSIDRSRQELETREKOSLALF-----LEKVDUDDEFLW 362
 Qy 349 -----KTLPM---VPFKTQDSPAVFSKGVLLRVTRNLVRNLKAVTTL 390
 Db 363 AETKDLDEPTCVESSVTPLDNCIPSPK-MPAVQOPTTILRQISNDPRLPTLH 421
 Qy 391 LQNLIMGLLFLFVLRVSNVLKGAIQ---DRVGLAYOFVGATPYCQMLNAVNLPFLUR 446
 Db 422 ABACLMWSITGFLYFG----HGSIONSPMDTAALIIMIGALIPFNVIDISKCYER 475
 Qy 447 AVSQESQDGLYQRMQMMIAYALVLPSSVAMIFSSCYWTGLHEVARP----- 499
 Db 476 AMVYELLEDQLYTGPYFFAKLIGELPHBHCAYTIGMPTYWLANTLRGLOPLFLHLLV 535
 Qy 500 -----GYSAALLAAPHLIGEFLTULUGLIVQNMIVNIVSVWALSIAGLVGGFL 549
 Db 536 WLUVFCCRIMALAAAALLPTFHMASFFS-----NAYLNSPYLAG----GFM 577
 Qy 550 RNIQEMPFFKISYFTFOKCYCBLIUVNBPFYGLNFTGQSSNVSTIN 597
 Db 578 INLSLWTVTPAWISKUSURWCCEGLMIQFSSRTYKQPLGNLTAVS 625

Db 195 IRLRQCADTRVGNMVRGLSGGERRRVSIGVQLWNPGLLILDEPTSGLDSFTAHNLVKT 254
 Qy |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
 Db 235 LVELARNRIVVLTIHOPRELFQDFKIALSFGELICGTPEMLDPFDPCYCPCB 294
 Qy |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
 Db 255 ISRLAKENRVLVLTISHOPRSDFIFRLPDVMTSGTPYIYGAOHMVOFTATGCPY 314
 Qy |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
 Db 295 SNPFDTYMDTSVDTQSKEERIETSKRVOMIESAYKSATCHKTKLNIRMKH----- 348
 Qy |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
 Db 315 SNPADFYVDLUSIDRSREGOBATREKAQDIAHF-----LEKURDLDDEWK 362
 Qy |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
 Db 349 -----XILPM----VFKTISPGVFSKGVLRLTRUVRNKAIVRL 390
 Qy |||||:|||||:|||||:|||||:|||||:|||||:|||||:
 Db 363 AETKDIDEDTGTCTESSYPLDINCLSPPT-MPGAVQQTTLRQISNDPRDITLHG 421
 Qy |||||:|||||:|||||:|||||:|||||:|||||:
 Db 391 IQLNLLNGFLFLPFLVLRVRSNTVKGATO---DRVGLYOGVATPYTMQMLANVLPFLV 446
 Qy |||||:|||||:|||||:|||||:|||||:
 Db 422 AECACMSMTGFLVFG----HGSQLSFMDTAALFMGALPPNVLDFVSKYER 475
 Qy |||||:|||||:|||||:|||||:
 Db 447 AVSDOBSODGAXYOKWOMMLAYALHVLPFSVATMFSSCYWTGLIPRVARF----- 499
 Qy |||||:|||||:|||||:
 Db 476 AMLYYLEDGHTTGPFYFAKLGLPEHCYVILYGMPTVWLANLRPGLOPFLHFLV 535
 Qy |||||:|||||:
 Db 500 -----GYFSAALLAPLIGBLTULVLTGIVONPNINSYVALISIAGVNGSRL 549
 Qy |||||:|||||:
 Db 536 WLVVFCCRIMALAALLPFHMASFS-----NALYNFSYLAG-----GFM 577
 Qy |||||:|||||:
 Db 550 RNQEMERPIFILISYTFQKCSSEIIVNNEPYGIANPTCGSSNVSTIN 597
 Qy |||||:|||||:
 Db 578 INLSSIWTVPAWISKYSPFLRCPEGMKIKPSRRTYKMPGLNLITAVS 625
 Qy |||||:|||||:
 *
 RESULT 10
 US-03-961-086-1
 ; Sequence 1, Application US/09961086
 ; Publication No. US20030366541
 ; GENERAL INFORMATION:
 ; APPLICANT: UNIVERSITY OF MARYLAND, BALTIMORE
 ; ATTORNEY: ROSS, Douglas D.
 ; ATTORNEY: DOYLE, L. Austin
 ; ATTORNEY: ABRUZZO, Lynne
 ; TITLE OF INVENTION: BREAST CANCER RESISTANCE PROTEIN (BCRP) AND THE DNA
 ; TITLE OF INVENTION: WHICH ENCODES IT
 ; FILE REFERENCE: EP19316-019
 ; CURRENT APPLICATION NUMBER: US/03-961,086
 ; CURRENT FILING DATE: 2001-09-21
 ; PRIOR APPLICATION NUMBER: US 60/073,763
 ; PRIOR FILING DATE: 1998-02-05
 ; PRIOR APPLICATION NUMBER: PCT/US99/02577
 ; PRIOR FILING DATE: 1999-02-05
 ; NUMBER OF SEQ ID NOS: 7
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 1
 ; LENGTH: 655
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ;
 *
 Query Match 20.5%; Score 682; 5; DB 10; Length 655;
 Best Local Similarity 29.2%; Pred. No. 5.2e-56;
 Matches 182; Conservative 138; Mismatches 249; Indels 55; Gaps 18;
 Qy 21 SOSSLEGAPATP--EPHSGLILHASYSVHRVPWDITSQCROWTQILKDVLYVE 77
 Qy |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
 Db 13 SQGNTGFPATASNDLKAFTGAVLSPHNICYVRLKGFLPCRKEVKELNSNINGMK 72
 Qy 78 SQQMCIGLGSGGSKTILLDAMSGRLGRAGTFLGEVYNGALRZBQFQDCFSYVQSDT 137
 Qy |||||:|||||:|||||:|||||:|||||:|||||:
 Db 73 PG-LNAFLGPPIGGKSSLDDVLAARKDPSG-LSGDVTLING-APRANKFKNQSYVQD 129
 Qy 138 LISSLTVRETMYTALLAIRGRNPG-SFOKKEVAEWAELSHSHADRLIGNSLGGISTG 196
 Qy |||||:|||||:|||||:|||||:|||||:
 Db 130 VNGLTITRNLQFSAARLAIATMINHEKNERINRVQELGDVKADSKVGTQFIRAVSG 189
 Qy |||||:|||||:
 *
 RESULT 10
 US-03-961-086-1
 ; Sequence 1, Application US/09961086
 ; Publication No. US20030366541
 ; GENERAL INFORMATION:
 ; APPLICANT: KOMATAKE, HIDEYA
 ; ATTORNEY: HARA, YOSHIZAKU
 ; ATTORNEY: KOTANI, HIDEHITO
 ; ATTORNEY: NAKAGAWA, RINA
 ; TITLE OF INVENTION: DRUG RESISTANT GENE AND USE THEREOF
 ; FILE REFERENCE: 234985US0CONT
 ; CURRENT APPLICATION NUMBER: US/10/405,806
 ; CURRENT FILING DATE: 2003-04-03
 ; PRIOR APPLICATION NUMBER: PCT/JP01/08112
 ; PRIOR FILING DATE: 2001-09-18
 ; PRIOR APPLICATION NUMBER: JP2000-303441
 ; PRIOR FILING DATE: 2000-10-03
 ; NUMBER OF SEQ ID NOS: 17
 ; SOFTWARE: PatentIn version 3.2
 ; SEQ ID NO 13
 ; LENGTH: 655
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE: OTHER INFORMATION: ABCG2 482T mutant sequence
 ;
 *
 Query Match 20.5%; Score 682; 5; DB 15; Length 655;
 Best Local Similarity 29.2%; Pred. No. 5.2e-56;
 Matches 182; Conservative 138; Mismatches 249; Indels 55; Gaps 18;
 Qy 21 SOSSLEGAPATP--EPHSGLILHASYSVHRVPWDITSQCROWTQILKDVLYVE 77
 Qy |||||:|||||:|||||:|||||:|||||:
 Db 13 SQGNTGFPATASNDLKAFTGAVLSPHNICYVRLKGFLPCRKEVKELNSNINGMK 72
 Qy 78 SQQMCIGLGSGGSKTILLDAMSGRLGRAGTFLGEVYNGALRZBQFQDCFSYVQSDT 137
 Qy |||||:|||||:|||||:|||||:
 Db 73 PG-LNAFLGPPIGGKSSLDDVLAARKDPSG-LSGDVTLING-APRANKFKNQSYVQD 129
 Qy 138 LISSLTVRETMYTALLAIRGRNPG-SFOKKEVAEWAELSHSHADRLIGNSLGGISTG 196
 Qy |||||:|||||:
 *
 RESULT 11
 US-10-05-806-13
 ; Sequence 13, Application US/10405806
 ; Publication No. US2003023232A1
 ; GENERAL INFORMATION:
 ; APPLICANT: KOMATAKE, HIDEYA
 ; ATTORNEY: HARA, YOSHIZAKU
 ; ATTORNEY: KOTANI, HIDEHITO
 ; ATTORNEY: NAKAGAWA, RINA
 ; TITLE OF INVENTION: DRUG RESISTANT GENE AND USE THEREOF
 ; FILE REFERENCE: 234985US0CONT
 ; CURRENT APPLICATION NUMBER: US/10/405,806
 ; CURRENT FILING DATE: 2003-04-03
 ; PRIOR APPLICATION NUMBER: PCT/JP01/08112
 ; PRIOR FILING DATE: 2001-09-18
 ; PRIOR APPLICATION NUMBER: JP2000-303441
 ; PRIOR FILING DATE: 2000-10-03
 ; NUMBER OF SEQ ID NOS: 17
 ; SOFTWARE: PatentIn version 3.2
 ; SEQ ID NO 13
 ; LENGTH: 655
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE: OTHER INFORMATION: ABCG2 482T mutant sequence
 ;
 *
 Query Match 20.5%; Score 682; 5; DB 15; Length 655;
 Best Local Similarity 29.2%; Pred. No. 5.2e-56;
 Matches 182; Conservative 138; Mismatches 249; Indels 55; Gaps 18;
 Qy 21 SOSSLEGAPATP--EPHSGLILHASYSVHRVPWDITSQCROWTQILKDVLYVE 77
 Qy |||||:|||||:|||||:|||||:
 Db 13 SQGNTGFPATASNDLKAFTGAVLSPHNICYVRLKGFLPCRKEVKELNSNINGMK 72
 Qy 78 SQQMCIGLGSGGSKTILLDAMSGRLGRAGTFLGEVYNGALRZBQFQDCFSYVQSDT 137
 Qy |||||:|||||:|||||:
 Db 73 PG-LNAFLGPPIGGKSSLDDVLAARKDPSG-LSGDVTLING-APRANKFKNQSYVQD 129
 Qy 138 LISSLTVRETMYTALLAIRGRNPG-SFOKKEVAEWAELSHSHADRLIGNSLGGISTG 196
 Qy |||||:|||||:
 *

Db :: : ||||| : :| : :| : | : ||| : | :|
 Db 130 VNGTLLTVRENIQPSAALRATTMTNHEKNERINRVIQELGDKVADSKVTOPIRGVSGC 189
 QY 197 ERREVSTAQLIOPDKRMNFDEPTTGUDCMCTAQIVVVLVELARRNRIUVLTHQPSRL 256
 Db 190 EREGTSMELIDTPSFLPDRPTGUDSSTANAVULLKOMSKQRTTFSIHORVSI 256
 Db 190 EREKTSMELIDTPSFLPDRPTGUDSSTANAVULLKOMSKQRTTFSIHORVSI 249
 Db 257 FOLFDKITALRFGBLIFCGTAPEMLDFNDGCPCEPHSNPFDPMYLTSVTQ---SK 312
 QY 257 FOLFDKITALRFGBLIFCGTAPEMLDFNDGCPCEPHSNPFDPMYLTSVTQ---SK 312
 Db 250 FKLFDSTLTLASGRMLMFGPAEALGYFESAGHCEAYNNPADFLDINGSTAVALNR 309
 QY 250 FKLFDSTLTLASGRMLMFGPAEALGYFESAGHCEAYNNPADFLDINGSTAVALNR 309
 Db 313 ERE-----IEJSKR---VOMIESAVKSAICHT----LKNTERMCKLTULMVPF 356
 QY 313 ERE-----IEJSKR---VOMIESAVKSAICHT----LKNTERMCKLTULMVPF 356
 Db 310 EEDPKATEIIEFSKQDKPLIEKLAETYNSFYKEYKAELHQSLGGEEKKKTVKEISY 369
 QY 310 EEDPKATEIIEFSKQDKPLIEKLAETYNSFYKEYKAELHQSLGGEEKKKTVKEISY 369
 Db 357 KTKDSPGFPSKLGVLURRVTRVLVRNUKAVITRQLQNLIMGFL--LFVFLVRNSVLKG 414
 QY 357 KTKDSPGFPSKLGVLURRVTRVLVRNUKAVITRQLQNLIMGFL--LFVFLVRNSVLKG 414
 Db 370 TT---SFCHQLRWVKRSFKNKLGNPQASTAQIIVTVVGLVIGAIYFGLKNDST--- 421
 QY 474 FSVVATMIFSSVYXWTGLHPEVARFOYFSALLAHPHIGFLTIVLUGVQNPNIVNSV 533
 Db 481 MRMPLSPSIFTCTIVYFMGLKPKRADAFPVMMFTLM---MVAASSMALIAQGSWSVA 537
 QY 481 MRMPLSPSIFTCTIVYFMGLKPKRADAFPVMMFTLM---MVAASSMALIAQGSWSVA 537
 Db 422 GIONRAGLF-FLTTNGCFSSVSAVELFWVKLFLTHEYISGYYRSSYFLGKLSDLP 480
 QY 422 GIONRAGLF-FLTTNGCFSSVSAVELFWVKLFLTHEYISGYYRSSYFLGKLSDLP 480
 Db 474 FSVVATMIFSSVYXWTGLHPEVARFGYFSALLAHPHIGFLTIVLUGVQNPNIVNSV 533
 QY 474 FSVVATMIFSSVYXWTGLHPEVARFGYFSALLAHPHIGFLTIVLUGVQNPNIVNSV 533
 Db 481 MRMPLSPSIFTCTIVYFMGLKPKRADAFPVMMFTLM---MVAASSMALIAQGSWSVA 537
 QY 534 VALISTAGV-LVGSGERNTOCIMPPIKRTISYFTORYCSBILVNEFYGLNFTCGSSN 591
 Db 534 VALISTAGV-LVGSGERNTOCIMPPIKRTISYFTORYCSBILVNEFYGLNFTCGSSN 591
 QY 538 TLMITCIVFMIFSSGLVNLTTIASWLSWQFSIPIRYGFTALQHNEFLGQNCFCPG--- 594
 Db 538 TLMITCIVFMIFSSGLVNLTTIASWLSWQFSIPIRYGFTALQHNEFLGQNCFCPG--- 594
 QY 592 VSUTTNPMCAFTQGIQFIEKTCG 615
 Db 592 VSUTTNPMCAFTQGIQFIEKTCG 615
 Db 595 LNATGNNPCNYA-----TCRG 610
 Db 595 LNATGNNPCNYA-----TCRG 610

RESULT 12
 US-09-981-353-35
 ; Sequence 35, Application US/09981353
 ; Patent No. US20020160382A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Jasek, Amy W.
 ; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER
 ; FILE REFERENCE: PA-038 US
 ; CURRENT APPLICATION NUMBER: US/09/981,353
 ; CURRENT FILING DATE: 2001-10-11
 ; NUMBER OF SEQ ID NOS: 194
 ; SOFTWARE: PERL Program
 ; SEQ ID NO 35
 ; LENGTH: 655
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: misc_feature
 ; OTHER INFORMATION: Incyte ID No. US20020160382A1 5517972CD1
 ; US-09-981-353-35

Query Match 20.5%; Score 680.5; DB 9; Length 655;
 Best Local Similarity 29.2%; Pred. No. 8.1e-56; Matches 182; Conservative 137; Mismatches 250; Indels 55; Gaps 18; Length: 655
 QY 21 SQQSLEGAPATAP---EPHSGLTHASYSVSHRVPRWDITSRCQWNTROIQKDVSYVE 77
 Db 13 SQGNTGFPATASNDLKAFTEGAVLSTHNCYVRKUKSGFLPKRKVEKEILSNINGIMK 72
 QY 78 SQQMCITLGSSGSKTTIDAMSGLRGAGTFGEVYNGRALRREQDCSYLQSDT 137
 Db 73 PG-LNATGFPICKGKSSLIDVLARKKOPSG-LSGDVLING-APRPANFKCNSGYYQDDV 129
 QY 138 LUSLITVRETHTALAIRGRNGP-SFQKYEAVMELSLSHVARLIGHNGLGISTG 196
 Db 130 VMGTLTVERLNLOSAALR LATTMNHEKNERINRVIQBLGDKVADSKVQFIRGVSGC 189

RESULT 13
 US-10-120-687-61
 ; Sequence 61, Application US/10120687
 ; Publication No. US20030082155A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Massachusetts General Hospital
 ; TITLE OF INVENTION: Stem Cells of the Islets of Langerhans and Their Use in Treating
 ; TITLE OF INVENTION: Melittus
 ; FILE REFERENCE: 3284/125B
 ; CURRENT APPLICATION NUMBER: US/10/120-687
 ; CURRENT FILING DATE: 2002-04-11
 ; PRIOR APPLICATION NUMBER: US60/169082
 ; PRIOR FILING DATE: 1999-12-05
 ; PRIOR APPLICATION NUMBER: US 09/953,875
 ; PRIOR FILING DATE: 2001-09-25
 ; PRIOR APPLICATION NUMBER: US 60/215109
 ; PRIOR FILING DATE: 2000-06-28
 ; PRIOR APPLICATION NUMBER: US 60/238880
 ; PRIOR FILING DATE: 2000-10-05
 ; PRIOR APPLICATION NUMBER: US 09/731261
 ; PRIOR FILING DATE: 2000-12-06
 ; NUMBER OF SEQ ID NOS: 61
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 61
 ; LENGTH: 655
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-10-120-687-61

Query Match 20.5%; Score 680.5; DB 14; Length 655;
 Best Local Similarity 29.2%; Pred. No. 8.1e-56; Matches 182; Conservative 137; Mismatches 250; Indels 55; Gaps 18; Length: 655
 QY 21 SQQSLEGAPATAP---EPHSGLTHASYSVSHRVPRWDITSRCQWNTROIQKDVSYVE 77
 Db 13 SQGNTGFPATASNDLKAFTEGAVLSTHNCYVRKUKSGFLPKRKVEKEILSNINGIMK 72
 QY 78 SQQMCILLOSSGSKTTIDAMSGLRGAGTFGEVYNGRALRREQDCSYLQSDT 137

RESULT 14
US-0-405-806-2

; Sequence 2, Application US/10405806
; Publication No. US20030232362A1

; GENERAL INFORMATION:

; APPLICANT: KOMATANI, HIDEYA

; APPLICANT: KOTANI, HIDEMI

; APPLICANT: NAKAWA, RINAKO

; TITLE OF INVENTION: DRUG RESISTANT GENE AND USE THEREOF

; FILE REFERENCE: 234955US0CONT

; CURRENT APPLICATION NUMBER: US/10/405, 806

; CURRENT FILING DATE: 2003-04-03

; PRIOR APPLICATION NUMBER: PCT/JP01/08112

; PRIOR FILING DATE: 2001-09-18

; PRIOR APPLICATION NUMBER: JP2000-303441

; PRIOR FILING DATE: 2000-10-03

; NUMBER OF SEQ ID NOS: 17

; SOFTWARE: Patentin version 3.2

; SEQ ID NO: 2

; LENGTH: 655

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-405-806-2

Query Match 20.5%; Score 680.5; DB 15; Length 655;
Best Local Similarity 29.2%; Pred. No. 8.1e-56;
Matches 182; Conservative 137; Mismatches 250; Indels 55; Gaps 18;

QY 21 SSSSLGGAPATAP--EPPSILGHASYSVSHVRWWMDITSCROWTQIKLKVSYVE 77

DB 13 SQGNTGFPATNSNDLKAFTGAVSLSPHNCITCYRKUKSGFLPCRKEVELNSINGIMK 72

78 SGQIMCILGSSGSKTTDAMSGRLLRAGTFLGEVYVNGALRREQFOODCCFSVYQLQDT 137

RESULT 15
US-09-866-866A-10

; Sequence 10, Application US/09866866A

; Patent No. US20020102244A1

; GENERAL INFORMATION:

; APPLICANT: Sorrentino, Brian

; APPLICANT: Schuetz, John

; TITLE OF INVENTION: A Method of Identifying and/or Isolating Stem Cells

; FILE REFERENCE: 1340-1-021CIP2

; CURRENT APPLICATION NUMBER: US/09/866, 866A

; CURRENT FILING DATE: 2001-08-30

; PRIOR APPLICATION NUMBER: 09/584, 586

; PRIOR FILING DATE: 2000-05-31

; PRIOR APPLICATION NUMBER: PCT/US99/11825

; PRIOR FILING DATE: 1999-05-27

; PRIOR APPLICATION NUMBER: 60/086, 988

; PRIOR FILING DATE: 1998-05-28

; NUMBER OF SEQ ID NOS: 27

; SOFTWARE: Patentin version 3.0

; SEQ ID NO: 10

; LENGTH: 655

; TYPE: PRT

; ORGANISM: Homo sapien

US-09-866-866A-10

Query Match 20.3%; Score 674.5; DB 9; Length 655;
Best Local Similarity 29.0%; Pred. No. 3.1e-55; Matches 181; Conservative 131; Mismatches 251; Indels 55; Gaps 18;

QY 21 SSSSLGGAPATAP--EPPSILGHASYSVSHVRWWMDITSCROWTQIKLKVSYVE 77

DB 13 SQGNTGFPATNSNDLKAFTGAVSLSPHNCITCYRKUKSGFLPCRKEVELNSINGIMK 72

OY	78	SGQIMCICGTTGGGGKTTTLDAMSGRGRAGTCFLGEGVYNGRALREOQDCFSVYLSODT	137
Db	73	PG-LMAILGPIGGGGKSLLDVLARKDPSG-LSGDWLNG-APPANFKCNSGVVQDDV	129
OY	138	LISSTUTRETLYTALLAIRGNPG-SFOKKUVEAMAEELSHYADRLIGNSYLGGSTG	196
Db	130	VNGTIVTRENTQFSALRALTMTWHEKERNIRVIEELGLDKVADSKVGTQFIRGVSGG	189
OY	197	ERRVSIAAQIQLDPKUMLFEPPTGCDCTMANTQVWULVELARRNITVLTIHQPSS	256
Db	190	ERKRTEIGMELTDPSLISLDEPTQFLDSSTANAVILLKRMKGRTTIFSHOPRSY	249
QY	257	FQLFDKIALSFGELTFCGTPAEMIJDFNDGYCPFEHSNPFDYMLWTSVDTQ---SK	312
Db	250	FKLFDLSITLASGRMLFHGPQAEBALGYFESAGIHCAYNAVPADFLIDINGSTAVALAR	309
QY	313	BRB-----IETSKR---VOMIESYKKAICHCT-----LNTERMKHKLTPWPF	356
Db	310	BEDPKATEIIEPSKOKPLKIAETYVNSPYKETKAELHOSSGEGKKITVKEISY	369
OY	357	KTKDSGPVFSKUGULLRVTANLVRKVLAVTRULQNLGFLJ--LPPVLRTRSNVKG	414
Db	370	TT---SFCHOLRWRWSRSRSPKNLQHPOASIAQITVITWVILGVIAIYPLKNDST---	421
QY	415	AQDQRVGLYQYQNGATPYTGMNANVLPVPUVARSDQESODGLYQKQWQMLAYAHVLP	473
Db	422	GIQRAGVLFLTTAQCPSSAVELFVUEKKLFIHEYISGYVRSSYFLGKLSDLP	480
OY	474	FSVATWIFSSCYWHTGILHTEVARGYFSALLAEPHICFLTIVLIGIVONPNTSV	533
Db	481	MRMPLSIIFTCIVYFMGIGKPKADAPFPWMFTL--MWAISASSMALIAAGOSVNSVA	537
OY	534	VALLSIAGV--LVGSGETLNTQEMP-PPKISYTFPRQKCYSEIUVNBRYGLIFTCGSSN	591
Db	538	TLMTCRPFVMMIFSGLIVNLTITASWLSLQYFSIIPRGFTALQHNEFLGQNCPG---	594
OY	592	VSVTTPMCAFTQGIOPIEKTCG	615
Db	595	LNATGNNPNCYA-----TCTG	610

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Job time : 26.0763 secs